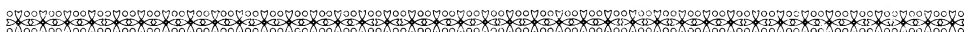


MEMO-MATIC PATTERNS

LIBRARY FOR PUNCH-CARD KNITTER

~
DISEÑOS DE MEMO-MATIC
COLECCION PARA LA TEJEDORA DE
MEMO-MATIC DE TARJETAS PERFORADAS



One punched card can be used for some knittings.

Page 88 (Card No. 1-6)

- (1) Fairisle
- (2) Tuck Knitting
- (3) Slip Stitch
- (4) Weaving
- (5) Varied Fairisle

Set the stop knob at ● at card memory No. 4 in the punch card.

Knit 10 rows with the two yarns threaded through the yarn feeder ① and ② respectively and 8 rows changing the yarns in reverse.
- (6) Multi-Colored Fairisle

Change color in every pattern.

Page 89 (Card No. 7-12)

- (7) Fairisle
- (8) Weaving
- (9) Double-Stretched Fairisle

Knit stopping the card every other row.
- (10) Single Motif Fairisle

Knit one pattern from card memory No. 3 thru No. 27 setting the stop knob at ● every other row.
- (11) Varied Fairisle No. 1

Put an adhesive tape on the two + marked holes in the center of the card.

Knit 10 rows stopping the card at ○
- (12) Varied Fairisle No. 2

Put an adhesive tape on all the + marked holes.

Knit 10 rows stopping the card from ○ thru △.

Page 90 (Card No. 13-18)

- (13) Fairisle
- (14) Slip Stitch

Knit changing colors every two rows.
- (15) Slip Stitch
- (16) Weaving
- (17) Punch Lace Knitting
- (18) Stripe Pattern

Set the stop knob at ● at card memory No. 2, knit.

Page 91 (Card No. 19-24)

FAIRISLE (Card No. 19-24)

- (19) Basic Pattern
- (20) Inverted Colors Stripe Pattern

Change colors threaded through the yarn feeder 1 and 2 at ○ conversely.
- (21) Double Stretched Pattern

Knit stopping the card every other row.
- (22) Varied Fairisle

Knit 4 rows stopping card at ▲.
- (23) Varied Fairisle.

Set the stop knob at card memory No. 4 and knit changing colors in the yarn feeder ① and ② in reverse every 10 rows.
- (24) Varied Fairisle

Knit following instructions, stopping the card at ○ for only two rows in stockinet.

| CAM LEVER | YARN | | NO. ROWS |
|-----------|------|-----|----------|
| | F.1 | F.2 | |
| STOCKINET | B | | ←→ 2 |
| KNIT IN | A | B | ←→ 14 |

Page 92 (Card No. 25-27)

Fairisle (Card No. 25 - 29)

- (25) Basic Pattern
- (26) Lateral Stripe Pattern

Knit from △ to ▲.

Return the card back to △ and set the stop knob at ●.

Knit several rows optionally in Stockinet (as a Lateral Stripe) and continue knitting from △ to ▲.
- (27) Single Motif Pattern

Knit single motif in Fairisle from △ thru ▲.

Page 93 (Card No. 28-30)

- (28) Fairisle
- (29) Weaving
- (30) Punch Lace Knitting

Page 94 (Card No. 31-33)

- (31) Slip Stitch
- (32) Tuck Knitting
- (33) Weaving

Page 95 (Card No. 34-36)

- (34) Fairisle
- (35) Tuck Knitting
- (36) Weaving

Page 96 (Card No. 37-40)

- (37) Fairisle
- (38) Fairisle in 3 Colors

Knit in the following order changing the yarns.

| Card Mark | Yarn | |
|-----------|------|------|
| | F. 1 | F. 2 |
| △ ~ △ | A | B |
| ▲ ~ ▲ | A | C |
| △ ~ △ | B | C |
| ▲ ~ ▲ | B | A |



- (39) Fairisle
- (40) Fairisle in 3 Colors

Knit in the following order changing the yarns.


| Card Mark | Yarn | |
|-----------|------|------|
| | F. 1 | F. 2 |
| △ ~ △ | A | B |
| ▲ ~ ▲ | A | C |
| ○ ~ ○ | A | B |

Table for Rib Knitting(Color)


Page 106 (1)

| Needle arrangement  Half pitch lever | | | | | | | | | |
|---|---|--------------------|------------------|-----------------|-----------|-------------|---------|-----------|--|
| H(right) | | | | | | | | | |
| Order | Main machine carriage | | | Ribber carriage | | | Swing | Direction | |
| | Cam lev. | Russel lev. (both) | Side lev. (both) | Set lev. | Pick knob | Russel lev. | Pointer | | |
| 1 | STOCK-INET | I | | ① ① | | -- | 5 | → | |
| 14 | " | " | " | " | " | " | " | ← | |
| 15 | Transfer stitches from ribber to main machine and vice versa.  | | | | | | | | |
| 16 | " | " | " | " | " | " | " | → | |
| 29 | " | " | " | " | " | " | " | ← | |

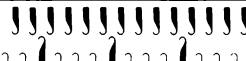
Page 106 (2)

| Needle arrangement  Half pitch lever | | | | | | | | | |
|---|-----------------------|--------------------|------------------|-----------------|-----------|-------------|---------|-----------|--|
| H(right) | | | | | | | | | |
| Order | Main machine carriage | | | Ribber carriage | | | Swing | Direction | |
| | Cam lev. | Russel lev. (both) | Side lev. (both) | Set lev. | Pick knob | Russel lev. | Pointer | | |
| 1 | STOCK-INET | I | | ① ① | | -- | 5 | → | |
| 6 | " | " | " | " | " | " | 0 | ← | |
| 11 | " | " | " | " | " | " | 5 | → | |
| 16 | " | " | " | " | " | " | 0 | ← | |
| 21 | " | " | " | " | " | " | 5 | → | |
| 30 | " | " | " | " | " | " | 5 | ← | |
| 35 | " | " | " | " | " | " | 10 | → | |
| 40 | " | " | " | " | " | " | 5 | ← | |
| 45 | " | " | " | " | " | " | 10 | → | |
| 50 | " | " | " | " | " | " | 5 | ← | |
| 55 | " | " | " | " | " | " | 10 | → | |
| 60 | " | " | " | " | " | " | 5 | ← | |
| 68 | " | " | " | " | " | " | 5 | → | |
| (Note) Knit swinging by the swing handle at a pace of one pitch every row. | | | | | | | | | |


Page 106 (3)

| Needle arrangement  Half pitch lever | | | | | | | | | |
|---|-----------------------|--------------------|------------------|-----------------|-----------|-------------|---------|-----------|--|
| H(right) | | | | | | | | | |
| Order | Main machine carriage | | | Ribber carriage | | | Swing | Direction | |
| | Cam lev. | Russel lev. (both) | Side lev. (both) | Set lev. | Pick knob | Russel lev. | Pointer | | |
| 1 | STOCK-INET | I | | ① ① | | -- | 5 | → | |
| 2 | " | " | " | " | " | " | " | ← | |
| 3 | " | " | " | " | " | " | 7 | → | |
| 4 | " | " | " | " | " | " | " | ← | |


Page 106 (4)

| Needle arrangement  Half pitch lever | | | | | | | | | |
|---|-----------------------|--------------------|------------------|-----------------|-----------|-------------|---------|-----------|--|
| H(right) | | | | | | | | | |
| Order | Main machine carriage | | | Ribber carriage | | | Swing | Direction | |
| | Cam lev. | Russel lev. (both) | Side lev. (both) | Set lev. | Pick knob | Russel lev. | Pointer | | |
| 1 | STOCK-INET | I | | ① ① | | -- | 5 | → | |
| 4 | " | " | " | " | " | " | " | ← | |
| 5 | " | " | " | " | " | " | 3 | → | |
| 6 | " | " | " | " | " | " | " | ← | |

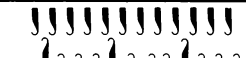
Page 107 (5)

| Needle arrangement  Half pitch lever | | | | | | | | | |
|--|-----------------------|--------------------|------------------|-----------------|-----------|-------------|---------|-----------|--|
| H(right) | | | | | | | | | |
| Order | Main machine carriage | | | Ribber carriage | | | Swing | Direction | |
| | Cam lev. | Russel lev. (both) | Side lev. (both) | Set lev. | Pick knob | Russel lev. | Pointer | | |
| 1 | STOCK-INET | I | | ① ① | | -- | 5 | → | |
| 2 | " | " | " | " | " | " | " | ← | |
| 3 | " | " | " | " | " | " | 7 | → | |
| 4 | " | " | " | " | " | " | " | ← | |

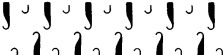





Page 107 (6)


| Needle arrangement  Half pitch lever | | | | | | | | | |
|--|-----------------------|--------------------|------------------|-----------------|-----------|-------------|---------|-----------|--|
| H(right) | | | | | | | | | |
| Order | Main machine carriage | | | Ribber carriage | | | Swing | Direction | |
| | Cam lev. | Russel lev. (both) | Side lev. (both) | Set lev. | Pick knob | Russel lev. | Pointer | | |
| 1 | STOCK-INET | I | | ① ① | | -- | 5 | → | |
| 12 | " | " | " | " | " | " | " | ← | |
| 13 | " | " | " | ① ① | " | " | " | → | |
| 16 | " | " | " | " | " | " | " | ← | |
| (Note) In Order 13 and 16 operation, stitches are formed on main machine side only. | | | | | | | | | |

Page 107 (7)


| Needle arrangement  Half pitch lever | | | | | | | | | |
|--|-----------------------|--------------------|------------------|-----------------|-----------|-------------|---------|-----------|--|
| H(right) | | | | | | | | | |
| Order | Main machine carriage | | | Ribber carriage | | | Swing | Direction | |
| | Cam lev. | Russel lev. (both) | Side lev. (both) | Set lev. | Pick knob | Russel lev. | Pointer | | |
| 1 | STOCK-INET | I | | ① ① | | -- | 5 | → | |
| 2 | " | " | " | " | " | " | 3 | ← | |
| 3 | " | " | " | " | " | " | 1 | → | |
| 4 | " | " | " | " | " | " | 3 | ← | |

Page 107 (8)


| Needle arrangement | | | | Half pitch lever | | | | |
|---|---|--------------------|---|--|---|-------------|---------|-----------|
|  | | | | | | | | |
| H(right) | | | | | | | | |
| Order | Main machine carriage | | | Ribber carriage | | | Swing | Direction |
| | Cam lev. | Russel lev. (both) | Side lev. (both) | Set lev. | Pick knob | Russel lev. | Pointer | |
| 1 | TUCK | I |  | ① ① |  | -- | 5 | → |
| 2 | " | " | " " | " " | " | " " | " | ← |
| 3 | " | " | " " | " " | " | " " | 4 | → |
| 4 | " | " | " " | " " | " | " " | " | ← |
| 5 | Change the needle arrangement of ribber to the illustrated order. | | |  | | | | |
| 6 | TUCK | I |  | ① ① |  | -- | 3 | → |
| 7 | " | " | " " | " " | " | " " | " | ← |
| 8 | " | " | " " | " " | " | " " | 4 | → |
| 9 | " | " | " " | " " | " | " " | " | ← |
| 10 | Return the needle arrangement of ribber to original position. | | | | | | | |
| (Note) Repeat Order 1 thru 4 operation four times. (knit 16 rows) Repeat Order 6 thru 9 operation nine times. (knit 36 rows) | | | | | | | | |

| Needle arrangement  | | | | | | | | | |
|--|-----------------------|--------------------------|------------------------|-----------------|--------------|----------------|------------------|----------------|--|
| Pileft) | | | | | | | | | |
| Or. der | Main machine carriage | | | Ribber carriage | | | Swing Pointer | Direc- tion | |
| | Cam lev. | Russel lev. (both) | Side lev. (both) | Set lev. | Pick knob | Russel lev. | | | |
| 1 | STOCK- INET | I | | ① ① | | --- | 5 | → | |
| 2 | " | " | " | " | " | " | " | ← | |
| 3 | " | " | " | " | " | " | " | → | |
| 4 | " | " | " | " | " | " | " | ← | |

(Note) Repeat Order 1 and 2 operation five times. (knit 10 rows)
Repeat Order 3 and 4 operation five times. (knit 10 rows)

| Needle arrangement  | | | | | | | | | |
|--|--|--------------------------|------------------------|-----------------|--------------|----------------|------------------|----------------|--|
| Hright) | | | | | | | | | |
| Or. der | Main machine carriage | | | Ribber carriage | | | Swing Pointer | Direc- tion | |
| | Cam lev. | Russel lev. (both) | Side lev. (both) | Set lev. | Pick knob | Russel lev. | | | |
| 1 | STOCK- INET | I | | ① ① | | --- | 5 | → | |
| 2 | " | " | " | " | " | " | " | ← | |
| 3 | Cross every ribber stitches to be placed at 5 and 7, and also 15 and 17. | | | | | | | | |

(Note) Repeat Order 1 and 2 operation three times. (knit 6 rows)

| Needle arrangement  | | | | | | | | | |
|--|-----------------------|--------------------------|------------------------|-----------------|--------------|----------------|------------------|----------------|--|
| Hright) | | | | | | | | | |
| Or. der | Main machine carriage | | | Ribber carriage | | | Swing Pointer | Direc- tion | |
| | Cam lev. | Russel lev. (both) | Side lev. (both) | Set lev. | Pick knob | Russel lev. | | | |
| 1 | STOCK- INET | I | | ① ① | | --- | 5 | → | |
| 2 | " | " | " | " | " | " | " | ← | |
| 3 | " | " | " | " | " | " | 3 | → | |
| 4 | " | " | " | " | " | " | " | ← | |




| Needle arrangement  | | | | | | | | | |
|--|-----------------------|--------------------------|------------------------|-----------------|--------------|----------------|------------------|----------------|--|
| Hright) | | | | | | | | | |
| Or. der | Main machine carriage | | | Ribber carriage | | | Swing Pointer | Direc- tion | |
| | Cam lev. | Russel lev. (both) | Side lev. (both) | Set lev. | Pick knob | Russel lev. | | | |
| 1 | STOCK- INET | I | | ① ① | | --- | 2 | → | |
| 2 | " | " | " | " | " | " | 3 | ← | |
| 3 | " | " | " | " | " | " | 4 | → | |
| 4 | " | " | " | " | " | " | 5 | ← | |
| 5 | " | " | " | " | " | " | 6 | → | |
| 12 | " | " | " | " | " | " | " | ← | |
| 13 | " | " | " | " | " | " | 5 | → | |
| 14 | " | " | " | " | " | " | 4 | ← | |
| 15 | " | " | " | " | " | " | 3 | → | |
| 16 | " | " | " | " | " | " | 2 | ← | |
| 23 | " | " | " | " | " | " | " | → | |


Table for Rib Knitting

| Needle arrangement  | | | | | | | | | |
|---|-----------------------|--------------------------|------------------------|-----------------|--------------|----------------|------------------|----------------|--|
| Hright) | | | | | | | | | |
| Or. der | Main machine carriage | | | Ribber carriage | | | Swing Pointer | Direc- tion | |
| | Cam lev. | Russel lev. (both) | Side lev. (both) | Set lev. | Pick knob | Russel lev. | | | |
| 1 | STOCK- INET | I | | ① ① | | --- | 5 | → | |
| 2 | " | " | " | " | " | " | 6 | ← | |
| 3 | " | " | " | " | " | " | " | → | |
| 4 | " | " | " | " | " | " | 5 | ← | |

(Note) Repeat Order 1 and 2 operation ten times.
Repeat Order 3 and 4 operation ten times.

| Needle arrangement  | | | | | | | | | |
|---|-----------------------|--------------------------|------------------------|-----------------|--------------|----------------|------------------|----------------|--|
| Hright) | | | | | | | | | |
| Or. der | Main machine carriage | | | Ribber carriage | | | Swing Pointer | Direc- tion | |
| | Cam lev. | Russel lev. (both) | Side lev. (both) | Set lev. | Pick knob | Russel lev. | | | |
| 1 | STOCK- INET | I | | ① ① | | --- | 2 | → | |
| 10 | " | " | " | " | " | " | " | ← | |
| 11 | " | " | " | " | " | " | " | → | |
| 12 | " | " | " | " | " | " | 7 | ← | |
| 21 | " | " | " | " | " | " | " | → | |
| 22 | " | " | " | " | " | " | " | ← | |




(Note) For Order 11 and 22 operation, knit after pushing all the vacant needles to B position and un-hook yarn on these needles, and put them back in A position.

| Needle arrangement  | | | | | | | | | |
|---|-----------------------|--------------------------|------------------------|-----------------|--------------|----------------|------------------|----------------|--|
| Hright) | | | | | | | | | |
| Or. der | Main machine carriage | | | Ribber carriage | | | Swing Pointer | Direc- tion | |
| | Cam lev. | Russel lev. (both) | Side lev. (both) | Set lev. | Pick knob | Russel lev. | | | |
| 1 | STOCK- INET | I | | ① ① | | --- | 5 | → | |
| 2 | " | " | " | " | " | " | " | ← | |
| 3 | " | " | " | ① ① | | " | " | → | |
| 4 | " | " | " | " | " | " | " | ← | |
| 5 | " | " | " | ① ① | | " | 3 | → | |
| 6 | " | " | " | " | " | " | " | ← | |
| 7 | " | " | " | " | | " | " | → | |
| 8 | " | " | " | " | " | " | " | ← | |

| Needle arrangement | | Half pitch lever | | | | | | | | | | H(right) | |
|--------------------|-----------------------|--------------------------|------------------------|-----------------|--------------|----------------|------------------|----------------|--|--|--|----------|--|
| | | | | | | | | | | | | | |
| Or. der | Main machine carriage | | | Ribber carriage | | | Swing Pointer | Direc- tion | | | | | |
| | Cam lev. | Russel lev. (both) | Side lev. (both) | Set lev. | Pick knob | Russel lev. | | | | | | | |
| 1 | STOCK- INET | I | D | ① ① | ← | — — | 5 | → | | | | | |
| 2 | " | " | " | " " | " | " " | " | ← | | | | | |
| 3 | " | " | " | " " | " | " " | " | → | | | | | |
| 4 | " | " | " | " " | " | " " | " | ← | | | | | |
| 5 | " | " | " | " " | " | " " | " | → | | | | | |
| 6 | " | " | " | " " | " | " " | " | ← | | | | | |
| 7 | " | " | " | " " | " | " " | " | → | | | | | |
| 8 | " | " | " | " " | " | " " | " | ← | | | | | |
| 9 | " | II | " | " " | " | " " | " | → | | | | | |
| 10 | " | I | " | " " | " | " " | " | ← | | | | | |
| 11 | " | " | " | " " | " | " " | " | → | | | | | |
| 12 | " | " | " | " " | " | " " | " | ← | | | | | |
| 13 | " | " | " | " " | " | " " | " | → | | | | | |

(Note) For Order 6 thru 8 operation, push ● marked needles to D position before knitting and lay yarns on these needles, then tuckknit all yarns at the Order 9 operation. Cross the four stitches on the ribber side after Order 13 operation.

Page 248 (5)





| Needle arrangement | |  | | | | | | | | | | Half pitch lever | |
|--------------------|-----------------------|--|---|-----------------|---|-------------|---------------|-----------|--|--|--|------------------|--|
| | | | | | | | | | | | | H(right) | |
| Order | Main machine carriage | | | Ribber carriage | | | Swing Pointer | Direction | | | | | |
| | Cam lev. | Russel lev. (both) | Side lev. (both) | Set lev. | Pick knob | Russel lev. | | | | | | | |
| 1 | STOCK-INET | I |  | ① ① |  | — — | 5 | → | | | | | |
| 20 | " | " | " | " " | " | " " | " | ← | | | | | |

(Note) Cross the four stitches on the main machine side after Order 20 operation.

Page 248 (6)

| Needle arrangement | | Half pitch lever | | | | | | | | | | H(right) | |
|--------------------|-----------------------|--------------------|------------------|-----------------|-----------|-------------|---------------|-----------|--|--|--|----------|--|
| | | | | | | | | | | | | | |
| Order | Main machine carriage | | | Ribber carriage | | | Swing Pointer | Direction | | | | | |
| | Cam lev. | Russel lev. (both) | Side lev. (both) | Set lev. | Pick knob | Russel lev. | | | | | | | |
| 1 | STOCK-INET | I | | ① ① | | | 5 | → | | | | | |
| 10 | " | " | " | " | " | " " | " | ← | | | | | |




(Note) Cross the six stitches on the ribber side after Order 10 operation.

| Needle arrangement | |  | | | | | | | | | | Half pitch lever | |
|--------------------|------------|--|---|----------|---|---|----|---------------|---|-----------|--|------------------|--|
| Order | | Main machine carriage | | | Ribber carriage | | | Swing Pointer | | Direction | | | |
| | Cam lev. | Russel lev. (both) | Side lev. (both) | Set lev. | Pick knob | Russel lev. | | | | | | | |
| 1 | STOCK-INET | I |  | ① ① |  |  | I | | → | | | | |
| 10 | " | " | " | " " | " | " " | 10 | | ← | | | | |
| 11 | " | " | " | " " | " | " " | I | | → | | | | |
| 20 | " | " | " | " " | " | " " | 10 | | ← | | | | |
| 21 | " | " | " | " " | " | " " | 10 | | → | | | | |
| 30 | " | " | " | " " | " | " " | I | | ← | | | | |
| 31 | " | " | " | " " | " | " " | 10 | | → | | | | |
| 40 | " | " | " | " " | " | " " | I | | ← | | | | |

(Note) To give a zig-zag effect, swing the ribber by the swing handle at a pace of one pitch per row. After Order 10 operation, transfer the stitches on the ribber side to the opposed needles of the main machine and rotate the swing handle until the swing pointer shows "1". Then, transfer those stitches back onto the one-stitch advanced ribber's needles toward the direction of carriage movement. After Order 30 operation, repeat the same procedure in Order 10, but remember to change the direction of swinging.

(Remarks) As the ribber is swung to increase the pitch indication, the ribber end needle may finally go to a position where there is no opposite needle on the main machine. Just before this situation occurs, transfer the stitch on the ribber end needle to the opposite main machine needle, and shift the vacated needle into A position. This needle is to be advanced to B position when the needle bed is sufficiently swung back.

Page 249 (8)

| Needle arrangement | | | | Half pitch lever | | | | | | | | | | H(right) | |
|--------------------|-----------------------|--------------------------|---|------------------|---|---|------------------|----------------|--|--|--|--|--|----------|--|
| | | | | | | | | | | | | | | | |
| Or. der | Main machine carriage | | | Ribber carriage | | | Swing Pointer | Direc- tion | | | | | | | |
| | Cam lev. | Russel lev. (both) | Side lev. (both) | Set lev. | Pick knob | Russel lev. | | | | | | | | | |
| 1 | STOCK- INET | I |  | ① ① |  |  | 5 | → | | | | | | | |
| 2 | " | " | " | " " | " | " " | " | ← | | | | | | | |
| 3 | " | " | " | " " | " | " " | 7 | → | | | | | | | |
| 4 | " | " | " | " " | " | " " | " | ← | | | | | | | |

| Needle arrangement | | Half pitch lever | | | | | | H(right) | |
|--------------------|-----------------------|--------------------|------------------|-----------------|-----------|-------------|---------------|-----------|--|
| | | | | | | | | | |
| Order | Main machine carriage | | | Ribber carriage | | | Swing Pointer | Direction | |
| | Cam lev. | Russel lev. (both) | Side lev. (both) | Set lev. | Pick knob | Russel lev. | | | |
| 1 | TUCK | I | ▲ | ① ① | — | — | 5 | → | |
| 2 | " | " | " | " | " | " | " | ← | |
| 3 | " | " | " | " | " | " | 6 | → | |
| 4 | " | " | " | " | " | " | " | ← | |
| 5 | " | " | " | " | " | " | 7 | → | |
| 6 | " | " | " | " | " | " | " | ← | |
| 7 | " | " | " | " | " | " | 6 | → | |
| 8 | " | " | " | " | " | " | " | ← | |

(Note) Repeat four times for Order 1 thru 4 operation. (Knit 16 rows)
Repeat four times for Order 5 thru 8 operation. (Knit 16 rows)

| Needle arrangement | | Half pitch lever | | | | | | H(right) | |
|--------------------|-----------------------|--------------------|------------------|-----------------|-----------|-------------|---------------|-----------|--|
| | | | | | | | | | |
| Order | Main machine carriage | | | Ribber carriage | | | Swing Pointer | Direction | |
| | Cam lev. | Russel lev. (both) | Side lev. (both) | Set lev. | Pick knob | Russel lev. | | | |
| 1 | STOCK-INET | I | ● | ① ① | U | — | 5 | → | |
| 2 | " | " | " | " | " | " | " | ← | |
| 3 | " | " | " | " | " | " | 4 | → | |
| 4 | " | " | " | " | " | " | " | ← | |

| Needle arrangement | | Half pitch lever | | | | | | H(right) | |
|--------------------|-----------------------|--------------------|------------------|-----------------|-----------|-------------|---------------|-----------|--|
| | | | | | | | | | |
| Order | Main machine carriage | | | Ribber carriage | | | Swing Pointer | Direction | |
| | Cam lev. | Russel lev. (both) | Side lev. (both) | Set lev. | Pick knob | Russel lev. | | | |
| 1 | STOCK-INET | I | ● | ① ① | U | — | 5 | → | |
| 8 | " | " | " | " | " | " | " | ← | |
| 9 | " | " | " | " | " | " | " | → | |
| 16 | " | " | " | " | " | " | " | ← | |

(Note) Transfer the stitches on the ribber side to the ▲ marked needles on the main machine side every 8th row. Pick the ● marked loops on the preceding row and transfer these loops on to the ▽ marked needles of the ribber side.

| Needle arrangement | | Half pitch lever | | | | | | H(right) | |
|--------------------|-----------------------|--------------------|------------------|-----------------|-----------|-------------|---------------|-----------|--|
| | | | | | | | | | |
| Order | Main machine carriage | | | Ribber carriage | | | Swing Pointer | Direction | |
| | Cam lev. | Russel lev. (both) | Side lev. (both) | Set lev. | Pick knob | Russel lev. | | | |
| 1 | STOCK-INET | I | ● | ① ① | U | — | 5 | → | |
| 2 | " | " | " | " | " | " | 5 | ← | |
| 3 | " | " | " | " | " | " | 3 | → | |
| 4 | " | " | " | " | " | " | 3 | ← | |

| Needle arrangement | | Half pitch lever | | | | | | H(right) | |
|--------------------|-----------------------|--------------------|------------------|-----------------|-----------|-------------|---------------|-----------|--|
| | | | | | | | | | |
| Order | Main machine carriage | | | Ribber carriage | | | Swing Pointer | Direction | |
| | Cam lev. | Russel lev. (both) | Side lev. (both) | Set lev. | Pick knob | Russel lev. | | | |
| 1 | STOCK-INET | I | ● | ① ① | U | — | 5 | → | |
| 2 | " | " | " | " | " | " | " | ← | |
| 3 | " | " | " | ① | U | " | " | → | |
| 4 | " | " | " | " | " | " | " | ← | |
| 5 | " | " | " | ① | U | " | 6 | → | |
| 6 | " | " | " | " | " | " | " | ← | |
| 7 | " | " | " | ① | U | " | " | → | |
| 8 | " | " | " | " | " | " | " | ← | |

| Needle arrangement | | Half pitch lever | | | | | | H(right) | |
|--------------------|-----------------------|--------------------|------------------|-----------------|-----------|-------------|---------------|-----------|--|
| | | | | | | | | | |
| Order | Main machine carriage | | | Ribber carriage | | | Swing Pointer | Direction | |
| | Cam lev. | Russel lev. (both) | Side lev. (both) | Set lev. | Pick knob | Russel lev. | | | |
| 1 | TUCK | I | ● | ① ① | U | — | 5 | → | |
| 2 | " | " | " | " | " | " | " | ← | |
| 3 | " | " | " | " | " | " | 6 | → | |
| 4 | " | " | " | " | " | " | " | ← | |

HOW TO PUNCH PATTERNS ON YOUR CARDS

(Refer to the pictures of page 251–252)

You can enjoy to punch patterns of your idea on your cards by punching them as you please. The procedures are as shown below:

- * A card has 60 rows.
- * Punching patterns begin upward at the row right above the second perforated row counting from the bottom of card.
Therefore, figures on the right side of the card represents the card memory which can be seen when the card is set on the knitter and in this case, the card memory 1 presents the 6th row counting from the bottom.
- * Length of cards depends on feature of patterns, because the number of row required for one pattern is not same respectively.

In the Case of punching patterns less than 60 rows

If the number of rows required for a pattern is 12 rows, for instance, one card is available for covering 5 patterns (12 × 5), but if the required number of rows for a pattern is 24 rows, a card which have 48 rows must be provided. In such a case, perforate the 49 and 50th row entirely as well as the lower part mentioned above and cut off the portion of the upper part of the card in order to make the card rotate endlessly.

Moreover, in order to permit you easy snapping, slightly cut in both ends of the upperpart as well as the lower part and punch 2 each holes on the right and left sides (refer to Photo 1). As to endless operation, it is preferable to punch patterns of more than 40 rows because the card circulates more smoothly.

In the Case of punching patterns more than 60 rows

When you punch patterns requiring more than 60 rows, punch holes lined up in 2 rows at the top and bottom of the card and 2 each of vertically lined holes on both ends for overlapping to connect the card to be added using snaps or scotch-tape (refer to Photo 2).

Relation between punching method and fabric

Patterns on a punched card consist of combined two sections, ○ (punched section) and □ (unpunched section). Latch needles which come to ○ positions are brought forward and those which come to □ positions do not operate.

Therefore, if you understand what pattern can be knitted looking at a punched card, you will be able to read various patterns such as tuck, slip stitch, fairisle and weaving, etc. from the card. The relation between needle movements and pattern making is as shown in the following table.

| Relation between card and needle Stitches | ○ Punched section | □ Unpunched section |
|--|---|--|
| Tuck stitch | Knit (stockinet) | Non-knitting, yarn is over the hook |
| Slip stitch | Knit (stockinet) | Non-knitting, yarn crosses in front |
| Fairisle | Knit with yarn from yarn feeder 2 | Knit with yarn from yarn feeder 1 |
| Punch lace | Knit nylon thread from yarn feeder 2 | Knit nylon thread and yarn together |
| Weaving | Weaving yarn is threaded above | Weaving yarn is threaded below |

The followings are some examples mentioned according to several cards:

The pattern in the card in Photo 3 has 1 unpunched section every 3 stitches in a row and consists of such patterns alternately arranged every 4 rows. Therefore, it is suited to tuck stitch and also, can be knitted in slip stitch, fairisle, weaving, lace knitting (set the needle at ○ position to “A” position as follows).

|○|○|○|○|○|
0

Note that the pattern which have more than 3 unpunched stitches vertically are not suitable for tuck stitch.

The patterns in the cards in Photo 4 and 5 are of diamond-shape and are quite resemble in design. However, the latter is used for fairisle and weaving only and is not fitted to tuck stitch and slip stitch because there are many unpunched stitches in the center part of the pattern, while the former can be knitted not only in fairisle and weaving, but also in tuck stitch and slip stitch.

Both the patterns in the cards in Photo 6 and 7 can be knitted in fairisle due to many unpunched sections and the former which has especially plentiful unpunched sections is suited to punch lace knitting.

HOW TO USE PUNCHED CARDS

Punched cards can be used in four ways; front, back, upper part and lower part. Also, most of patterns can be knitted using either side of cards, front and back, according to one's taste. However, in the case of knitting the patterns, the figure “3”, in fairisle, set your card so as to reverse the figure “3” toward you.

Una tarjeta perforada la pueden usar para varios tejidos.

Página 88 (Tarjeta No. 1-6)

- (1) Entretejido
- (2) Punto Recogido
- (3) Punto Deslizado
- (4) Diseño de Trama
- (5) Entretejido Variado
- Ajuste la perilla de parada en la marca ● en No. 4 de la memoria de la tarjeta
- Teja 10 carreras con los dos estambres enhebrados por el alimentador ① y ② respectivamente y 8 carreras cambiandolos inversamente.
- (6) Entretejido Multicolor
- Cambie color en cada diseño.

Página 89 (Tarjeta No. 7-12)

- (7) Entretejido
- (8) Diseño de Trama
- (9) Entretejido de Tamaño Doble
- Teja parando la tarjeta una carrera si y otra no.
- (10) Entretejido de Motivo Simple
- Teja un diseño de No. 3 de la memoria de la tarjeta a No. 27 ajustando la perilla de parada en ● cada dos carreras.
- (11) Entretejido Variado No. 1
- Ponga una cinta adhesiva en los dos agujeros, marcados con + en el centro de la tarjeta.
- Teja 10 carreras parando la tarjeta en ○
- (12) Entretejido Variado No. 2
- Ponga una cinta adhesiva en todos los agujeros marcados con +. Teja 10 carreras parando la tarjeta de ○ a △.

Página 90 (Tarjeta No. 13-18)

- (13) Entretejido
- (14) Punto Recogido
- Teja cambiando colores cada dos carreras.
- (15) Punto Deslizado
- (16) Diseño de Trama
- (17) Punch Lace
- (18) Diseño de Raya
- Ajuste la perilla de parada en ● en No. 2 de la memoria de la tarjeta y teja.

Página 91 (Tarjeta No. 19-24)

- ENTRETEJIDO (Tarjeta No. 19-24)
- (19) Diseño Básico
- (20) Diseño de Raya Invertida en Colores
- Cambie los colores enhebrados en el alimentador ① y ② inversamente en ○.
- (21) Diseño de Tamaño Doble
- Teja parando la tarjeta cada dos carreras.
- (22) Entretejido Variado
- Teja 4 carreras parando la tarjeta en ▲.
- (23) Entretejido Variado
- Ajuste la perilla de parada en No. 4 de la memoria de la tarjeta y teja cambiando colores en el alimentador ① y ② inversamente cada 10 carreras.
- (24) Entretejido Variado

Teja como siguiente parando la tarjeta en ○ para sólo las dos carreras en Jersey.

| PALANCA DE LEVA | ESTAMBRE | | NO. CARRERAS |
|-----------------|----------|------|--------------|
| | A. 1 | A. 2 | |
| JERSEY | B | | ←→ 2 |
| ENTRETEJIDO | A | B | ←→ 4 |

Página 92 (Tarjeta No. 25-27)

- Entretejido (Tarjeta No. 25 - 29)
- (25) Diseño Básico
- (26) Diseño de Raya Lateral
- Teja de △ a ▲.
- Devuelva la tarjeta a △ y ajuste la perilla de parada a ●
- Teja varias carreras al gusto en jersey (como una raya lateral) y vuelva a tejer de △ a ▲
- (27) Diseño de Motivo Simple
- Teja motivo simple en Entretejido de △ a ▲

Página 93 (Tarjeta No. 28-30)

- (28) Entretejido
- (29) Diseño de Trama
- (30) Punch Lace

Página 94 (Tarjeta No. 31-33)

- (31) Punto Deslizado
- (32) Punto Recogido
- (33) Diseño de Trama

Página 95 (Tarjeta No. 34-36)

- (34) Entretejido
- (35) Punto Recogido
- (36) Diseño de Trama

Página 96 (Tarjeta No. 37-40)

- (37) Entretejido
- (38) Entretejido en 3 Colores
- Teja en el orden siguiente, cambiando los estambres.

| arca de Tarjeta | Estambre | |
|-----------------|----------|------|
| | A. 1 | A. 2 |
| △ ~ △ | A | B |
| ▲ ~ ▲ | A | C |
| △ ~ △ | B | C |
| ▲ ~ ▲ | B | A |

- (39) Entretejido
- (40) Entretejido en 3 Colores
- Teja en el orden siguiente, cambiando los estambres.

| Marca de Tarjeta | Estambre | |
|------------------|----------|------|
| | A. 1 | A. 2 |
| △ ~ △ | A | B |
| ▲ ~ ▲ | A | C |
| ○ ~ ○ | A | B |

Tabla para tejido de resorte(Color)

Página 106 (1)

| Disposición de las agujas | | Palanca de medio paso | | | | | | Hlderechal | |
|---------------------------|--|-------------------------------|-------------------------|----------------------------|----------------------|---------------------|----------------|----------------------|-----------|
| | | Carro de la maquina Principal | | | Carro de la auxiliar | | | | |
| Or- | den | Palanca de leva | Palancas Russel (ambas) | Palancas laterales (ambas) | Palanca de ajuste | Palanca de recogido | Palanca Russel | Escala de oscilación | Dirección |
| 1 | JERSEY | I | I | II | ① ① | U | -- | 5 | → |
| 14 | " | " | " | " | " | " | " | " | ← |
| 15 | Transfiera los puntos de la auxiliar a la maestra y viceversa. | | | | | | | | |
| 16 | " | " | " | " | " | " | " | " | → |
| 29 | " | " | " | " | " | " | " | " | ← |

Página 106 (2)

| Disposición de las agujas | | Palanca de medio paso | | | | | | Hlderechal | |
|--|--------|-------------------------------|-------------------------|----------------------------|----------------------|---------------------|----------------|----------------------|-----------|
| | | Carro de la maquina Principal | | | Carro de la auxiliar | | | | |
| Or- | den | Palanca de leva | Palancas Russel (ambas) | Palancas laterales (ambas) | Palanca de ajuste | Palanca de recogido | Palanca Russel | Escala de oscilación | Dirección |
| 1 | JERSEY | I | I | II | ① ① | U | -- | 5 | → |
| 6 | " | " | " | " | " | " | " | 0 | ← |
| 11 | " | " | " | " | " | " | " | 5 | → |
| 16 | " | " | " | " | " | " | " | 0 | ← |
| 21 | " | " | " | " | " | " | " | 5 | → |
| 30 | " | " | " | " | " | " | " | 5 | ← |
| 35 | " | " | " | " | " | " | " | 10 | → |
| 40 | " | " | " | " | " | " | " | 5 | ← |
| 45 | " | " | " | " | " | " | " | 10 | → |
| 50 | " | " | " | " | " | " | " | 5 | ← |
| 55 | " | " | " | " | " | " | " | 10 | → |
| 60 | " | " | " | " | " | " | " | 5 | ← |
| 68 | " | " | " | " | " | " | " | 5 | → |
| (Nota) Teja oscilando con el mango de oscilación paso a paso cada carrera. | | | | | | | | | |

Página 106 (3)

| Disposición de las agujas | | Palanca de medio paso | | | | | | Hlderechal | |
|---------------------------|--------|-------------------------------|-------------------------|----------------------------|----------------------|---------------------|----------------|----------------------|-----------|
| | | Carro de la maquina Principal | | | Carro de la auxiliar | | | | |
| Or- | den | Palanca de leva | Palancas Russel (ambas) | Palancas laterales (ambas) | Palanca de ajuste | Palanca de recogido | Palanca Russel | Escala de oscilación | Dirección |
| 1 | JERSEY | I | I | II | ① ① | U | -- | 5 | → |
| 2 | " | " | " | " | " | " | " | " | ← |
| 3 | " | " | " | " | " | " | " | 7 | → |
| 4 | " | " | " | " | " | " | " | " | ← |

Página 106 (4)

| Disposición de las agujas | | Palanca de medio paso | | | | | | Hlderechal | |
|---------------------------|--------|-------------------------------|-------------------------|----------------------------|----------------------|---------------------|----------------|----------------------|-----------|
| | | Carro de la maquina Principal | | | Carro de la auxiliar | | | | |
| Or- | den | Palanca de leva | Palancas Russel (ambas) | Palancas laterales (ambas) | Palanca de ajuste | Palanca de recogido | Palanca Russel | Escala de oscilación | Dirección |
| 1 | JERSEY | I | I | II | ① ① | U | -- | 5 | → |
| 4 | " | " | " | " | " | " | " | " | ← |
| 5 | " | " | " | " | " | " | " | 3 | → |
| 6 | " | " | " | " | " | " | " | " | ← |

Página 107 (5)

| Disposición de las agujas | | Palanca de medio paso | | | | | | Hlderechal | |
|---------------------------|--------|-------------------------------|-------------------------|----------------------------|----------------------|---------------------|----------------|----------------------|-----------|
| | | Carro de la maquina Principal | | | Carro de la auxiliar | | | | |
| Or- | den | Palanca de leva | Palancas Russel (ambas) | Palancas laterales (ambas) | Palanca de ajuste | Palanca de recogido | Palanca Russel | Escala de oscilación | Dirección |
| 1 | JERSEY | I | I | II | ① ① | U | -- | 5 | → |
| 2 | " | " | " | " | " | " | " | " | ← |
| 3 | " | " | " | " | " | " | " | 7 | → |
| 4 | " | " | " | " | " | " | " | " | ← |

Página 107 (6)

| Disposición de las agujas | | Palanca de medio paso | | | | | | Hlderechal | |
|--|--------|-------------------------------|-------------------------|----------------------------|----------------------|---------------------|----------------|----------------------|-----------|
| | | Carro de la maquina Principal | | | Carro de la auxiliar | | | | |
| Or- | den | Palanca de leva | Palancas Russel (ambas) | Palancas laterales (ambas) | Palanca de ajuste | Palanca de recogido | Palanca Russel | Escala de oscilación | Dirección |
| 1 | JERSEY | I | I | II | ① ① | U | -- | 5 | → |
| 12 | " | " | " | " | " | " | " | " | ← |
| 13 | " | " | " | " | ① ① | " | " | " | → |
| 16 | " | " | " | " | " | " | " | " | ← |
| (Nota) En operaciones de 13 a 16, los puntos se forman en la maestra sólo. | | | | | | | | | |

Página 107 (7)

| Disposición de las agujas | | Palanca de medio paso | | | | | | Hlderechal | |
|---------------------------|--------|-------------------------------|-------------------------|----------------------------|----------------------|---------------------|----------------|----------------------|-----------|
| | | Carro de la maquina Principal | | | Carro de la auxiliar | | | | |
| Or- | den | Palanca de leva | Palancas Russel (ambas) | Palancas laterales (ambas) | Palanca de ajuste | Palanca de recogido | Palanca Russel | Escala de oscilación | Dirección |
| 1 | JERSEY | I | I | II | ① ① | U | -- | 5 | → |
| 2 | " | " | " | " | " | " | " | 3 | ← |
| 3 | " | " | " | " | " | " | " | 1 | → |
| 4 | " | " | " | " | " | " | " | 3 | ← |

Página 107 (8)

| Disposición de las agujas | | | | | | | Palanca de medio paso | | Hidrecho | |
|--|--|-------------------------------|-------------------------|----------------------------|----------------------|---------------------|-----------------------|----------------------|-----------|--|
| Or-den | | Carro de la maquina Principal | | | Carro de la auxiliar | | | Escala de oscilación | Dirección | |
| | | Palanca de leva | Palancas Russel (ambas) | Palancas laterales (ambas) | Palanca de ajuste | Palanca de recogido | Palanca Russel | | | |
| 1 | RECOGER | I | | | ① ① | — | — | 5 | → | |
| 2 | " | " | " | " | " | " | " | " | ← | |
| 3 | " | " | " | " | " | " | " | 4 | → | |
| 4 | " | " | " | " | " | " | " | " | ← | |
| 5 | Cambie la colocación de agujas de la auxiliar como se muestra. | | | | | | | | | |
| 6 | RECOGER | I | | | ① ① | — | — | 3 | → | |
| 7 | " | " | " | " | " | " | " | " | ← | |
| 8 | " | " | " | " | " | " | " | 4 | → | |
| 9 | " | " | " | " | " | " | " | " | ← | |
| 10 | Vuelva las agujas en la colocación inicial. | | | | | | | | | |
| (Nota) Repita operación de 1 a 4 cuatro veces. (Teja 16 carreras.) | | | | | | | | | | |
| Repita operación de 6 a 9 nueve veces. (Teja 36 carreras.) | | | | | | | | | | |

| Disposición de las agujas | | Palanca de medio paso | | | | | | Plizquierdal | |
|---------------------------|--------|-------------------------------|-------------------------|----------------------------|----------------------|---------------------|----------------|----------------------|-----------|
| | | Carro de la maquina Principal | | | Carro de la auxiliar | | | | |
| Orden | | Palanca de leva | Palancas Russel (ambas) | Palancas laterales (ambas) | Palanca de ajuste | Palanca de recogida | Palanca Russel | Escala de oscilación | Dirección |
| 1 | JERSEY | I | I | ■ | ① ① | U | — | 5 | → |
| 2 | " | " | " | " | " | " | " | " | ← |
| 3 | " | " | " | " | " | " | " | 7 | → |
| 4 | " | " | " | " | " | " | " | " | ← |

(Nota) Repita Nos. de operación 1 y 2 cinco veces. (Teja 10 carreras.)
Repita Nos. de operación 3 y 4 cinco veces. (Teja 10 carreras.)

| Disposición de las agujas | | Palanca de medio paso | | | | | | Hidrechal | |
|---------------------------|--|-------------------------------|-------------------------|----------------------------|----------------------|---------------------|----------------|----------------------|-----------|
| | | Carro de la maquina Principal | | | Carro de la auxiliar | | | | |
| Orden | | Palanca de leva | Palancas Russel (ambas) | Palancas laterales (ambas) | Palanca de ajuste | Palanca de recogida | Palanca Russel | Escala de oscilación | Dirección |
| 1 | JERSEY | I | I | ■ | ① ① | U | — | 5 | → |
| 2 | " | " | " | " | " | " | " | " | ← |
| 3 | Entrecruce los puntos 5 y, 15 y 17 y así sucesivamente en la auxiliar. | | | | | | | | |

(Nota) Repita Nos. de operación 1 y 2 tres veces. (Teja 6 carreras.)

| Disposición de las agujas | | Palanca de medio paso | | | | | | Hidrechal | |
|---------------------------|--------|-------------------------------|-------------------------|----------------------------|----------------------|---------------------|----------------|----------------------|-----------|
| | | Carro de la maquina Principal | | | Carro de la auxiliar | | | | |
| Orden | | Palanca de leva | Palancas Russel (ambas) | Palancas laterales (ambas) | Palanca de ajuste | Palanca de recogida | Palanca Russel | Escala de oscilación | Dirección |
| 1 | JERSEY | I | I | ■ | ① ① | U | — | 5 | → |
| 2 | " | " | " | " | " | " | " | " | ← |
| 3 | " | " | " | " | " | " | " | 3 | → |
| 4 | " | " | " | " | " | " | " | " | ← |

| Disposición de las agujas | | Palanca de medio paso | | | | | | Hidrechal | |
|---------------------------|--------|-------------------------------|-------------------------|----------------------------|----------------------|---------------------|----------------|----------------------|-----------|
| | | Carro de la maquina Principal | | | Carro de la auxiliar | | | | |
| Orden | | Palanca de leva | Palancas Russel (ambas) | Palancas laterales (ambas) | Palanca de ajuste | Palanca de recogida | Palanca Russel | Escala de oscilación | Dirección |
| 1 | JERSEY | I | I | ■ | ① ① | U | — | 2 | → |
| 2 | " | " | " | " | " | " | " | 3 | ← |
| 3 | " | " | " | " | " | " | " | 4 | → |
| 4 | " | " | " | " | " | " | " | 5 | ← |
| 5 | " | " | " | " | " | " | " | 6 | → |
| 12 | " | " | " | " | " | " | " | " | ← |
| 13 | " | " | " | " | " | " | " | 5 | → |
| 14 | " | " | " | " | " | " | " | 4 | ← |
| 15 | " | " | " | " | " | " | " | 3 | → |
| 16 | " | " | " | " | " | " | " | 2 | ← |
| 23 | " | " | " | " | " | " | " | " | → |

Tabla para tejido de resorte.

| Disposición de las agujas | | Palanca de medio paso | | | | | | Hidrechal | |
|---------------------------|--------|-------------------------------|-------------------------|----------------------------|----------------------|---------------------|----------------|----------------------|-----------|
| | | Carro de la maquina Principal | | | Carro de la auxiliar | | | | |
| Orden | | Palanca de leva | Palancas Russel (ambas) | Palancas laterales (ambas) | Palanca de ajuste | Palanca de recogida | Palanca Russel | Escala de oscilación | Dirección |
| 1 | JERSEY | I | I | ■ | ① ① | U | — | 5 | → |
| 2 | " | " | " | " | " | " | " | 6 | ← |
| 3 | " | " | " | " | " | " | " | " | → |
| 4 | " | " | " | " | " | " | " | 5 | ← |

(Nota) Repita Nos. del orden de operación 1 y 2 diez veces.
Repita Nos. del orden de operación 3 y 4 diez veces.

| Disposición de las agujas | | Palanca de medio paso | | | | | | Hidrechal | |
|---------------------------|--------|-------------------------------|-------------------------|----------------------------|----------------------|---------------------|----------------|----------------------|-----------|
| | | Carro de la maquina Principal | | | Carro de la auxiliar | | | | |
| Orden | | Palanca de leva | Palancas Russel (ambas) | Palancas laterales (ambas) | Palanca de ajuste | Palanca de recogida | Palanca Russel | Escala de oscilación | Dirección |
| 1 | JERSEY | I | I | ■ | ① ① | U | — | 2 | → |
| 10 | " | " | " | " | " | " | " | " | ← |
| 11 | " | " | " | " | " | " | " | " | → |
| 12 | " | " | " | " | " | " | " | 7 | ← |
| 21 | " | " | " | " | " | " | " | " | → |
| 22 | " | " | " | " | " | " | " | " | ← |

(Nota) Para Nos. del orden de operación 11 y 22, teja después de poner todas las agujas vacantes en la posición B. Luego, quite el estambre de las agujas y vuelvas en la posición A

| Disposición de las agujas | | Palanca de medio paso | | | | | | Hidrechal | |
|---------------------------|--------|-------------------------------|-------------------------|----------------------------|----------------------|---------------------|----------------|----------------------|-----------|
| | | Carro de la maquina Principal | | | Carro de la auxiliar | | | | |
| Orden | | Palanca de leva | Palancas Russel (ambas) | Palancas laterales (ambas) | Palanca de ajuste | Palanca de recogida | Palanca Russel | Escala de oscilación | Dirección |
| 1 | JERSEY | I | I | ■ | ① ① | U | — | 5 | → |
| 2 | " | " | " | " | " | " | " | " | ← |
| 3 | " | " | " | " | ① ① | U | " | " | → |
| 4 | " | " | " | " | " | " | " | " | ← |
| 5 | " | " | " | " | ① ① | U | " | 3 | → |
| 6 | " | " | " | " | " | " | " | " | ← |
| 7 | " | " | " | " | " | U | " | " | → |
| 8 | " | " | " | " | " | " | " | " | ← |

Pages 120 & 121
(Paginas 120 y 121)
35. 36. 37. 39. 42
Use the P Carriage
Use el Carro P

| Disposición de las agujas | | | Palanca de medio paso | | | Hlderechal | |
|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|---------------------|----------------|------------|
| | | | | | | | |
| | | | | | | | |
| Or-den | Carro de la maquina Principal | | | Carro de la auxiliar | | | Direc-ción |
| | Palanca de leva | Palancas Russel (ambas) | Palancas laterales (ambas) | Palanca de ajuste | Palanca de recogida | Palanca Russel | |
| 1 | JERSEY | I | ■ | ① ① | — | — | 5 → |
| 2 | " | " | " | " | " | " | ← |
| 3 | " | " | " | " | " | " | → |
| 4 | " | " | " | " | " | " | ← |
| 5 | " | " | " | " | " | " | → |
| 6 | " | " | " | " | " | " | ← |
| 7 | " | " | " | " | " | " | → |
| 8 | " | " | " | " | " | " | ← |
| 9 | " | II | " | " | " | " | → |
| 10 | " | I | " | " | " | " | ← |
| 11 | " | " | " | " | " | " | → |
| 12 | " | " | " | " | " | " | ← |
| 13 | " | " | " | " | " | " | → |

(Nota) En Nos. del orden de operación 6 y 8, teja después de poner las agujas marcadas con ● en la posición D. (Los puntos serán recogidos.)
Después de No. de operación 13, entrecruce los cuatros puntos de la auxiliar.

| Disposición de las agujas | | | Palanca de medio paso | | | Hlderechal | |
|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|---------------------|----------------|------------|
| | | | | | | | |
| | | | | | | | |
| Or-den | Carro de la maquina Principal | | | Carro de la auxiliar | | | Direc-ción |
| | Palanca de leva | Palancas Russel (ambas) | Palancas laterales (ambas) | Palanca de ajuste | Palanca de recogida | Palanca Russel | |
| 1 | JERSEY | I | ■ | ① ① | U | — | 5 → |
| 20 | " | " | " | " | " | " | ← |

(Nota) Entrecruce los cuatro puntos en la maestra después de No. de operación 20.

| Disposición de las agujas | | | Palanca de medio paso | | | Hlderechal | |
|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|---------------------|----------------|------------|
| | | | | | | | |
| | | | | | | | |
| Or-den | Carro de la maquina Principal | | | Carro de la auxiliar | | | Direc-ción |
| | Palanca de leva | Palancas Russel (ambas) | Palancas laterales (ambas) | Palanca de ajuste | Palanca de recogida | Palanca Russel | |
| 1 | JERSEY | I | ■ | ① ① | — | — | 5 → |
| 10 | " | " | " | " | " | " | ← |

(Nota) Entrecruce los seis puntos en la auxiliar después de No. de operación 10.

| Disposición de las agujas | | | Palanca de medio paso | | | Hlderechal | |
|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|---------------------|----------------|------------|
| | | | | | | | |
| | | | | | | | |
| Or-den | Carro de la maquina Principal | | | Carro de la auxiliar | | | Direc-ción |
| | Palanca de leva | Palancas Russel (ambas) | Palancas laterales (ambas) | Palanca de ajuste | Palanca de recogida | Palanca Russel | |
| 1 | JERSEY | I | ■ | ① ① | — | — | 1 → |
| 10 | " | " | " | " | " | " | ← |
| 11 | " | " | " | " | " | " | 1 → |
| 20 | " | " | " | " | " | " | 10 ← |
| 21 | " | " | " | " | " | " | 10 → |
| 30 | " | " | " | " | " | " | 1 ← |
| 31 | " | " | " | " | " | " | 10 → |
| 40 | " | " | " | " | " | " | 1 ← |

(Nota) Teja oscilando paso a paso por el mango de oscilación. Después de tejer con oscilación de 10 pasos, vuelva a No. 1 de oscilación y teja. Teja oscilando viceversa.

| Disposición de las agujas | | | Palanca de medio paso | | | Hlderechal | |
|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|---------------------|----------------|------------|
| | | | | | | | |
| | | | | | | | |
| Or-den | Carro de la maquina Principal | | | Carro de la auxiliar | | | Direc-ción |
| | Palanca de leva | Palancas Russel (ambas) | Palancas laterales (ambas) | Palanca de ajuste | Palanca de recogida | Palanca Russel | |
| 1 | JERSEY | I | ■ | ① ① | — | — | 5 → |
| 2 | " | " | " | " | " | " | ← |
| 3 | " | " | " | " | " | " | 7 → |
| 4 | " | " | " | " | " | " | ← |

| Disposición de las agujas | | | | | | | | Palanca de medio paso | |
|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|---------------------|----------------|----------------------|-----------------------|--|
| | | | | | | | | Hidrechal | |
| Orden | Carro de la maquina Principal | | | Carro de la auxiliar | | | Escala de oscilación | Dirección | |
| | Palanca de leva | Palancas Russel (ambas) | Palancas laterales (ambas) | Palanca de ajuste | Palanca de recogido | Palanca Russel | | | |
| 1 | RECOGER | I | ▲ | ① ① | — | — | 5 | → | |
| 2 | " | " | " | " | " | " | " | ← | |
| 3 | " | " | " | " | " | " | 6 | → | |
| 4 | " | " | " | " | " | " | " | ← | |
| 5 | " | " | " | " | " | " | 7 | → | |
| 6 | " | " | " | " | " | " | " | ← | |
| 7 | " | " | " | " | " | " | 6 | → | |
| 8 | " | " | " | " | " | " | " | ← | |

(Nota) Repita cuatro veces las operaciones de 1 a 4.
Repita cuatro veces las operaciones de 5 a 8.

| Disposición de las agujas | | | | | | | | Palanca de medio paso | |
|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|---------------------|----------------|----------------------|-----------------------|--|
| | | | | | | | | Hidrechal | |
| Orden | Carro de la maquina Principal | | | Carro de la auxiliar | | | Escala de oscilación | Dirección | |
| | Palanca de leva | Palancas Russel (ambas) | Palancas laterales (ambas) | Palanca de ajuste | Palanca de recogido | Palanca Russel | | | |
| 1 | JERSEY | I | ▲ | ① ① | U | — | 5 | → | |
| 2 | " | " | " | " | " | " | " | ← | |
| 3 | " | " | " | " | " | " | 4 | → | |
| 4 | " | " | " | " | " | " | " | ← | |

| Disposición de las agujas | | | | | | | | Palanca de medio paso | |
|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|---------------------|----------------|----------------------|-----------------------|--|
| | | | | | | | | Hidrechal | |
| Orden | Carro de la maquina Principal | | | Carro de la auxiliar | | | Escala de oscilación | Dirección | |
| | Palanca de leva | Palancas Russel (ambas) | Palancas laterales (ambas) | Palanca de ajuste | Palanca de recogido | Palanca Russel | | | |
| 1 | JERSEY | I | ▲ | ① ① | U | — | 5 | → | |
| 8 | " | " | " | " | " | " | " | ← | |
| 9 | " | " | " | " | " | " | " | → | |
| 16 | " | " | " | " | " | " | " | ← | |

(Nota) Transfiera los puntos de la auxiliar en las agujas marcadas con ▲ de la maestra cada 8 carreras.
Escoja el punto de una carrera abajo en la aguja marcada con ● y transfieralo en la aguja marcada con ▼ de la auxiliar.

| Disposición de las agujas | | | | | | | | Palanca de medio paso | |
|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|---------------------|----------------|----------------------|-----------------------|--|
| | | | | | | | | Hidrechal | |
| Orden | Carro de la maquina Principal | | | Carro de la auxiliar | | | Escala de oscilación | Dirección | |
| | Palanca de leva | Palancas Russel (ambas) | Palancas laterales (ambas) | Palanca de ajuste | Palanca de recogido | Palanca Russel | | | |
| 1 | JERSEY | I | ▲ | ① ① | U | — | 5 | → | |
| 2 | " | " | " | " | " | " | 5 | ← | |
| 3 | " | " | " | " | " | " | 3 | → | |
| 4 | " | " | " | " | " | " | 3 | ← | |

| Disposición de las agujas | | | | | | | | Palanca de medio paso | |
|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|---------------------|----------------|----------------------|-----------------------|--|
| | | | | | | | | Hidrechal | |
| Orden | Carro de la maquina Principal | | | Carro de la auxiliar | | | Escala de oscilación | Dirección | |
| | Palanca de leva | Palancas Russel (ambas) | Palancas laterales (ambas) | Palanca de ajuste | Palanca de recogido | Palanca Russel | | | |
| 1 | JERSEY | I | ▲ | ① ① | U | — | 5 | → | |
| 2 | " | " | " | " | " | " | " | ← | |
| 3 | " | " | " | ① | U | " | " | → | |
| 4 | " | " | " | " | " | " | " | ← | |
| 5 | " | " | " | ① | U | " | 6 | → | |
| 6 | " | " | " | " | " | " | " | ← | |
| 7 | " | " | " | ① | U | " | " | → | |
| 8 | " | " | " | " | " | " | " | ← | |

| Disposición de las agujas | | | | | | | | Palanca de medio paso | |
|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|---------------------|----------------|----------------------|-----------------------|--|
| | | | | | | | | Hidrechal | |
| Orden | Carro de la maquina Principal | | | Carro de la auxiliar | | | Escala de oscilación | Dirección | |
| | Palanca de leva | Palancas Russel (ambas) | Palancas laterales (ambas) | Palanca de ajuste | Palanca de recogido | Palanca Russel | | | |
| 1 | RECOGER | I | ▲ | ① ① | U | — | 5 | → | |
| 2 | " | " | " | " | " | " | " | ← | |
| 3 | " | " | " | " | " | " | 6 | → | |
| 4 | " | " | " | " | " | " | " | ← | |

CÓMO PERFORAR DISEÑOS SOBRE SUS TARJETAS

(Refiérase a las fotos de página 251—252)

Vd. puede gozarse de perforar diseños de su idea sobre sus tarjetas perforándolos como Vd. quiera. Los procedimientos son los siguientes:

- * Una tarjeta tiene 60 carreras de largo.
- * Diseños de perforar comienzan hacia arriba a las carreras inmediatamente superiores a la segunda carrera perforada contada desde el fondo de tarjeta.
Las cifras al lado derecho de la tarjeta representan la memoria de tarjeta que es visible cuando la tarjeta está colocada en la tejedora, y en este caso, la memoria de tarjeta 1 representa la sexta carrera contada del fondo.
- * La largura de tarjetas depende del tipo de diseños, porque el número de carreras exigidas para un diseño no es igual respectivamente.

*** En el caso de perforar diseños de menos de 60 carreras**

En caso de que el número de carreras exigidas para un diseño sea de 12 carreras, por ejemplo, una tarjeta puede recorrer 5 diseños (12 x 5). Sin embargo, si el número exigido de carreras para un diseño es de 24 carreras, es necesario proveer una tarjeta que tiene 48 carreras. En tal caso, perfore las 49ª y 50ª carreras enteramente así como la parte inferior susodicha y desherede la porción de la parte superior de la tarjeta de modo que pueda hacer girar la tarjeta en forma continua.

A fin de facilitarle a Vd. abrochar la tarjeta, corte un poco ambos extremos de las partes superior así como inferior y perfore 2 orificios en ambos lados derecho e izquierdo. (Véanse la foto 1.) En cuanto a operación interminable, es preferible perforar diseños de más de 40 cras. porque la tarjeta hace vueltas más lisamente.

*** En el caso de perforar diseños de más de 60 cras.**

Cuando Vd. perfora diseños que requieren más de 60 cras., perfore una agrupación de orificios en 2 cras. en la tapa y al fondo de la tarjeta y cada 2 de orificios verticalmente alineados en ambos extremos para traslapación a fin de unir la tarjeta que agregar usando broches de la tarjeta y cintas de celofán. (Véanse la foto 2.)

*** Relación entre el método de perforación y el tejido**

Diseños sobre una tarjeta perforada constan de dos secciones combinadas, ○ (sección perforada) y □ (sección no perforada).

Agujas que vienen a posiciones ○ se avanzan y las que vienen a posiciones □ no funcionan.

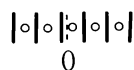
Por lo tanto, si Vd. entiende cuales diseños pueden enlazarse mirando una tarjeta perforada, Vd. podrá leer varios diseños tales como recogido, puntada deslizada, entretejido y trama, etc. desde la tarjeta.

La relación entre los movimientos de agujas y la formación de diseños está indicada en la tabla que sigue:

| Relación entre tarjeta y aguja Tejido | ○ (Sección perforada) | □ (Sección no perforada) |
|--|---|--|
| Recogido | Teje (Jersey) | Sin tejer, la lana queda sobre el gancho. Diseño será disponible. |
| Punto deslizado | Teje (Jersey) | No teje, la lana queda cruzada en el frente. Diseño será disponible. |
| Entretejido | Teje con estambre del alimentador ②. | Teje juntos la hebra de nylon y el estambre del alimentador ①. |
| Punch lace | Teje la hebra de nylon del alimentador ②. | Teje con estambre del alimentador ①. |
| Trama | El estambre de la trama queda por encima. | El estambre de la trama queda por debajo. |

Las fotos de ejemplo le indican cómo leer las tarjetas.

El diseño en la tarjeta en la foto 3 tiene una sección no perforada para cada 3 secciones en una carrera y consta de tales diseños alternamente dispuestos cada 4 cras. Por lo tanto, conviene recoger puntos y también, puede ser tejido en puntos deslizados, entretejido, punto de trama, tejido calado por selección de agujas (Ponga la aguja en la posición o a la posición A como sigue).



Asegúrese de que el diseño que tiene más de 3 secciones no perforadas verticalmente no conviene al punto recogido.

Los diseños tejidos con las tarjetas en las fotos 4 y 5 son de forma de diamante y se asemejan mucho en diseño. Sin embargo, éste se usa solamente para entretejido y trama y no conviene a los puntos recogido y deslizado porque hay muchos puntos no perforados en la parte central del diseño, mientras que aquél puede ser tejido no sólo en entretejido y trama sino también en puntos de recogido y deslizado. Ambos diseños tejidos con las tarjetas en las fotos 6 y 7 pueden ser tejidos en entretejido por causa de muchas secciones no perforadas. Aquél que tiene especialmente abundantes secciones no perforadas conviene al punto de punch lace.

CÓMO UTILIZAR TARJETAS PERFORADAS

Tarjetas perforadas pueden usarse en cuatro sentidos:

Delantero, trasero, parte superior y parte inferior. Además la mayor parte de diseños pueden ser tejidos usando cualquiera de los dos lados de tarjetas, delantero y trasero, según el gusto.

Sin embargo, en el caso de tejer la cifra "3" en entretejido, Vd. debe poner su tarjeta de manera que la cifra "3" se invierta vista del lado de Vd.

Let's make full use of your imagination!
¡Vamos a desarrollar su creatividad!

